

SHEET 1 OF 3

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

203510US77

SERIAL NO.

10/023,890

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

William M. CANFIELD

FILING DATE

December 21, 2001

GROUP

1652

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JUL 24 2003

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	99/31117	06/24/99	WIPO		
	AP					
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## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

RP	AS	Ke-Wei ZHAO, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphotransferase", Glycobiology, Vol. 2, no. 2, pp. 119-125, 1992
RP	AT	Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins in vitro", DNA Research, Vol. 6, pp. 337-345, 1999
RP	AU	<del>XP-002261108</del> "KIAA1208 protein (Fragment)", From Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins in vitro", DNA Research, Vol. 6, pp. 337-345, 1999 <i>Tr EMBL Accession No. Q9ULL2</i>
RP	AV	<del>XP-002261107</del> "Basic domain/leucine zipper transcription factor (Fragment)", From CORDES, et al., "The mouse segmentation gene kr encodes a novel basic domain-leucine zipper transcription factor" (1994), Cell, Vol. 7, No. 9, pp.1025-1034 <i>Tr EMBL Accession No. Q61340</i>

☐ Additional References sheet(s) attached

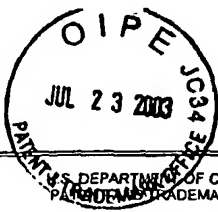
Examiner

Rebecca Pouty

Date Considered

6/8/04

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RP	BW	Karen Gheesling MULLIS, et al., "Purification and Kinetic Parameters of Bovine Liver N-Acetylglucosamine-1-phosphodiester alpha-N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 269, No. 3, Issue of January 21, pp. 1718-1726, 1994	
RP	BX	Jin Kyu LEE, et al., "Purification and Characterization of Human Serum N-Acetylglucosamine-1-phosphodiester alpha-N-Acetylglucosaminidase", Archives of Biochemistry and Biophysics, Vol. 319, No. 2, June 1, pp. 413-425, 1995	
RP	BY	Theodore PAGE, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase", Glycobiology, Vol. 6, no. 6, pp. 619-626, 1996	
RP	BZ	Thomas J. BARANSKI, et al., "Lysosomal Enzyme Phosphorylation", The Journal of Biological Chemistry, Vol. 267, No. 32, Issue of November 15, pp. 23342-23348, 1992	<input type="checkbox"/> Additional References sheet(s) attached

Examiner

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SHEET 3 OF 3

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LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD		JUL 24 2003 TECH CENTER 1600/2900	
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U.S. PATENT DOCUMENTS							
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	CV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
RP	CW	Ritva TIKKANEN, et al., "Several cooperating binding sites mediate the interaction of a lysosomal enzyme with phosphotransferase", The EMBO Journal, vol. 16, No. 22, pp. 6684-6693, 1997					
RP	CX	Fumito MATSUURA, et al., "Human alpha-galactosidase A: characterization of the N-linked oligosaccharides on the intracellular and secreted glycoforms overexpressed by Chinese hamster ovary cells", Glycobiology, vol. 8, no. 4, pp. 329-339, 1998					
RP	CY	Shiroh MAGUCHI, et al., "Elevated Activity and Increased Mannose-6-phosphate in the Carbohydrate Moiety of Cathepsin D from Human Hepatoma", Cancer Research, Vol. 48, pp. 362-367, January 15, 1988					
RP	CZ	Norman W. Barton, et al., "Therapeutic response to intravenous infusions of glucocerebrosidase in a patient with Gaucher disease", Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 1913-1916, March 1990				<input type="checkbox"/> Additional References sheet(s) attached	
Examiner <i>Rebecca Porty</i>					Date Considered <i>6/8/04</i>		
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SHEET 1 OF 2

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RP	AW	R.O. BRADY, et al., "Modifying Exogenous Glucocerebrosidase for Effective Replacement Therapy in Gaucher Disease", J. Inher. Metab. Dis., Vol. 17, (1994), pp. 510-519
RP	AX	Emil D. KAKKIS, et al., "Overexpression of the Human Lysosomal Enzyme $\alpha$ -L-Iduronidase in Chinese Hamster Ovary Cells", Protein Expression and Purification, Vol. 5, (1994), pp. 225-252
RP	AY	Ke-Wei ZHAO, et al., "Carbohydrate Structures of Recombinant Human $\alpha$ -L-Iduronidase Secreted by Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, Vol. 272, No. 36, Issue of September 5, 1997, pp. 22758-22765
RP	AZ	Robin J. ZIEGLER, et al., "Correction of Enzymatic and Lysosomal Storage Defects in Fabry Mice by Adenovirus-Mediated Gene Transfer", Human Gene Therapy, Vol. 10, pp. 1667-1682, (July 1, 1999)

☐ Additional References sheet(s) attached

Examiner

Rebecca Proulx

Date Considered

6/8/04

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RP	AW	SASAKI, K. et al., "Expression cloning of novel alpha 2,3-sialyltransferase using lectin resistance selection", J. Biol. Chem., October 1993, Vol. 268, No. 30, pages 22782-22787
BP	AX	MICHEL, B. et al., "Selection of an expression host for human glucocerebrosidase: importance of host cell glycosylation." UCLA Symposia on Molecular and Cellular Biology, 1990, Vol. 111 (Glycobiology), pages 159-172
RP	AY	STANLEY, P. et al., "Selection and characterization of eight phenotypically distinct lines of lectin-resistant Chinese hamster ovary cells", Cell, October 1975, Vol. 6, No. 2, pages 121-128
	AZ	

☐ Additional References sheet(s) attached

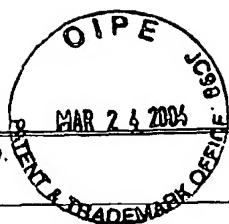
Examiner

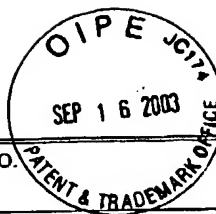
Rebecca Prouty

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SHEET 2 OF 2

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BP	BW	Huaichang SUN, et al., "Retrovirus Vector-Mediated Correction and Cross-Correction of Lysosomal $\alpha$ -Mannosidase Deficiency in Human and Feline Fibroblasts", Human Gene Therapy, Vol. 10, pp. 1311-1319, (May 20, 1999)				
RP	BX	Aji REUSER, et al., "Lysosomal storage diseases: cellular pathology, clinical and genetic heterogeneity, therapy", Ann Biol Clin., Vol. 52, (1994), pp. 721-728				
	BY					
	BZ					<input type="checkbox"/> Additional References sheet(s) attached

Examiner

*Rebecca Parry*

Date Considered

6/8/04

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LIST OF RELATED CASES

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<u>Docket Number</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Inventor/ Applicant</u>
<del>203510US77*</del>	<del>10/023,890</del>	<del>12/21/01</del>	<del>CANFIELD</del>
RP 241990US77-DIV	10/657,280	09/09/03	CANFIELD

Rebecca Prouty 6/8/04

\*Present Application; listed for information  
NFO/amr